

Abstract of the Disclosure

The present invention provides a method for morphing different geometric shapes while not using algebraic characteristics and overcoming inefficiency of Minkowski sum computation. The method for geometric shape morphing by using direction map so as to smoothly morph more than two different geometric shapes includes the steps of: a) extracting each direction map of the geometric shape; b) merging the direction maps; 10 c) scaling the merged direction map by group; and d) generating a polygon by using an inverse function of a direction map.